

# FILE NOTATIONS

Entered In NID File \_\_\_\_\_  
 Entered On S R Sheet \_\_\_\_\_  
 Location Map Pinned ☒ \_\_\_\_\_  
 Card Indexed ☒ \_\_\_\_\_  
 I W R for State or Fee Land \_\_\_\_\_

Checked by Chief EKB  
 Copy NID to Field Office \_\_\_\_\_  
 Approval Letter ☒ \_\_\_\_\_  
 Disapproval Letter \_\_\_\_\_

## COMPLETION DATA:

Date Well Completed \_\_\_\_\_  
 OW \_\_\_\_\_ WW \_\_\_\_\_ TA \_\_\_\_\_  
 GW \_\_\_\_\_ OS \_\_\_\_\_ PA \_\_\_\_\_

Location Inspected \_\_\_\_\_  
 Bend released \_\_\_\_\_  
 State of Fee Land \_\_\_\_\_

## LOGS FILED

Driller's Log \_\_\_\_\_

Electric Logs (No. ) 3

E \_\_\_\_\_ I \_\_\_\_\_ E-I \_\_\_\_\_ GR \_\_\_\_\_ GR-N \_\_\_\_\_ Micro \_\_\_\_\_

Lat \_\_\_\_\_ Mi-L \_\_\_\_\_ Sonic \_\_\_\_\_ Others \_\_\_\_\_

*compensated formation density log*  
*dual induction laterolog*  
*sidewall neutron porosity log*

*ADW*  
*12-3-91*

Mt. site falls in McElmo Creek Bed - checked  
on location with topog. map. Request for  
exception to Rule #3 O.K. LEB.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>14-20-603-2055</b>
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <b>Wildcat</b> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>Navajo Tribal</b>
2. NAME OF OPERATOR <b>Union Oil Company of California</b>		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR <b>P. O. Box 1611 - Casper, Wyoming 82601</b>		8. FARM OR LEASE NAME <b>Imay</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface <b>2227' FSL and 2072' FWL (NW NW SW)</b> At proposed prod. zone		9. WELL NO. <b>29-B3</b>
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>Cortez, Colorado approximately 30 miles west</b>		10. FIELD AND POOL, OR WILDCAT <b>Wildcat</b>
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) <b>413' S of Line</b>	16. NO. OF ACRES IN LEASE <b>1120</b>	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 29, T-40S, R-26E</b>
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. <b>3960 SE</b>	19. PROPOSED DEPTH <b>5550'</b>	12. COUNTY OR PARISH <b>San Juan</b>
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>4693' GR.</b>		13. STATE <b>Utah</b>
20. ROTARY OR CABLE TOOLS <b>Rotary</b>		22. APPROX. DATE WORK WILL START*

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8	48	150'	Cement to surface
12 1/4"	8 5/8	24	1500'	200 sx
7 7/8"	5 1/2	15.5	5550'	150 sx

Union Oil Company of California proposes to drill to approximately 5550' as a Imay and Desert Creek Wildcat.

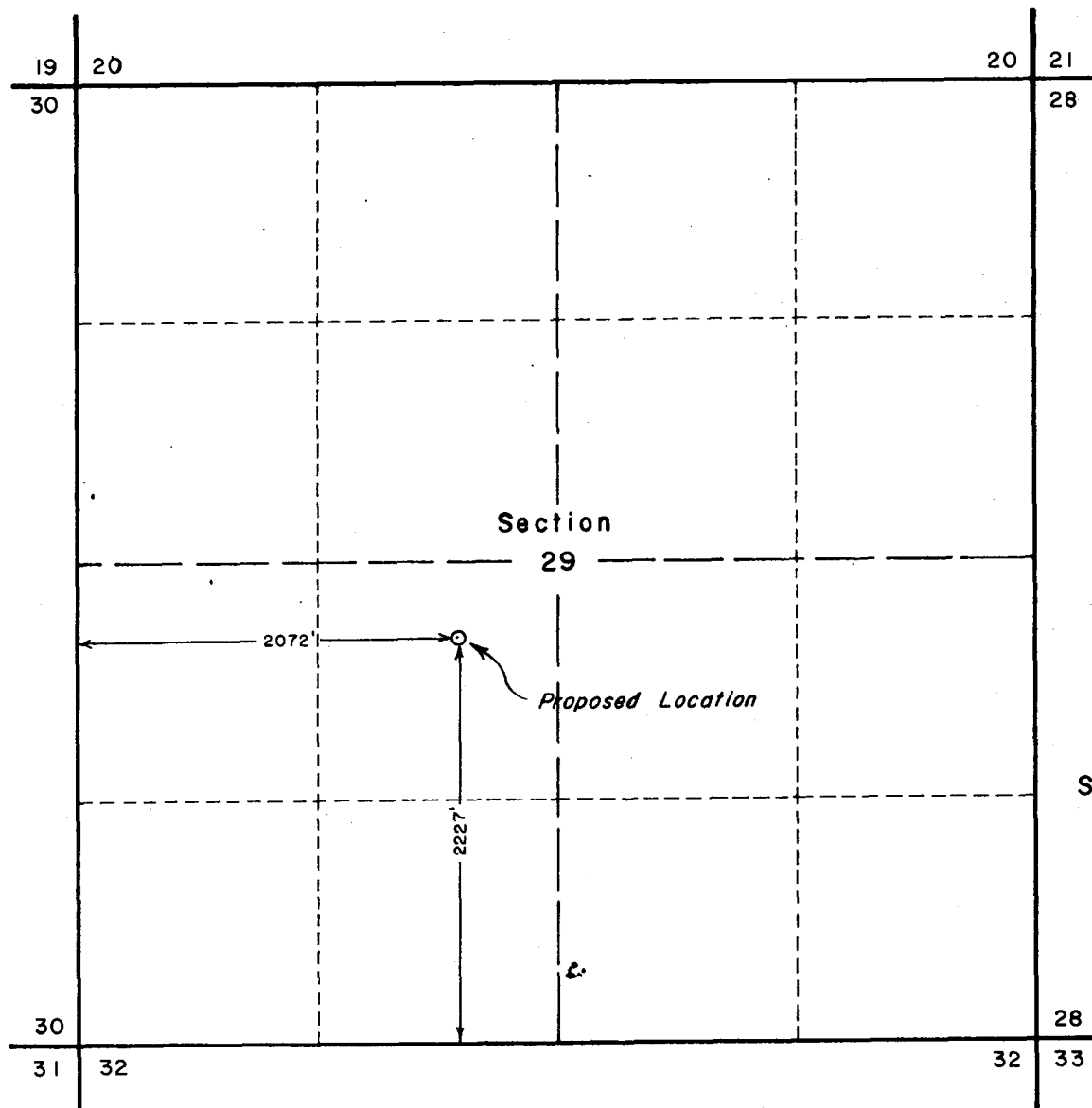
Union Oil Company of California is requesting an exception to Rule No. C-3 on account of topography; Union Oil Company of California and its partners own an oil and gas lease within a radius of 660' from the location. Location cleared with Paul W. Burchell, Chief Petroleum Engineer for the Utah Conservation Commission. Coring and drill stem testing will be at the discretion of the wellsite geologist.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. ORIGINAL SIGNED BY  
SIGNED W. J. Mansbridge TITLE District Drilling Supt. DATE August 10, 1966  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:



**WELL LOCATION: Union Oil Company - No. 29 - B3 Ismay**

Located 2227 feet North of the South line and 2072 feet East of the West line of Section 29,  
 Township 40 South, Range 26 East, Salt Lake Base & Meridian,  
 San Juan Co., Utah  
 Existing ground elevation determined at 4693 feet based on adjoining well locations.

I hereby certify the above plat represents a survey  
 made under my supervision and that it is accurate  
 to the best of my knowledge and belief.

*Frederick H. Reed*

FREDERICK H. REED  
 Registered Land Surveyor  
 State of Utah # 2689



UNION OIL COMPANY  
 Denver, Colorado

WELL LOCATION PLAT  
 Sec. 29, T. 40 S., R. 26 E.  
 San Juan Co., Utah

CLARK-REED & ASSOC.  
 Durango, Colorado

DATE: Aug. 8, 1966  
 FILE NO: 66076

Flow Time	1st 60 Min.	2nd 60 Min.	Date	9-7-66	Ticket Number	312897 - S
Closed In Press. Time	1st 60 Min.	2nd 60 Min.	Kind of Job	Open Hole	Halliburton District	Farmington
Pressure Readings	Field	Office Corrected	Tester	Mr. Whitesides	Witness	Mr. Gustabon
Depth Top Gauge	5255 Ft.	Blanked Off	Drilling Contractor	J C MAND COMPANY	SM	
BT. P.R.D. No.	786	12 Hour Clock	Elevation		Top Packer	5270'
Initial Hydro Mud Pressure	2852	2853	Total Depth	5330'	Bottom Packer	5275'
Initial Closed in Pres.	1613	1638	Interval Tested	5330-5275'	Formation Tested	Upper Ismay
Initial Flow Pres.	8 1 14	135 2 146	Casing or Hole Size	7 7/8"	Casing Perfs.	Top Bot.
Final Flow Pres.	135 1 136	217 2 213	Surface Choke	1"	Bottom Choke	3/4"
Final Closed in Pres.	1882	1926	Size & Kind Drill Pipe	4 1/2" XH	Drill Collars Above Tester	I.D. - LENGTH 2 1/4 690
Final Hydro Mud Pressure	2852	2815	Mud Weight	10.5	Mud Viscosity	49
Depth Cen. Gauge		Blanked Off	Temperature	120 °F Est. °F Actual	Anchor Size & Length	ID 2 1/4 OD 6 X 20
BT. P.R.D. No.		Hour Clock	Depths Mea. From	Rotary table	Depth of Tester Valve	5250 Ft.
Initial Hydro Mud Pres.			TYPE AMOUNT		Depth Back Pres. Valve	Ft.
Initial Closed in Pres.			Cushion			
Initial Flow Pres.	1		Recovered	180 Feet of	heavy gas cut drilling mud	
Final Flow Pres.	2		Recovered	180 Feet of	heavy oil cut mud with some free oil	
Final Closed in Pres.	1		Recovered			
Final Hydro Mud Pres.	2		Recovered			
Depth Bot. Gauge	5326 Ft.	yes Blanked Off	Oil A.P.I. Gravity		Water Spec. Gravity	
BT. P.R.D. No.	730	24 Hour Clock	Gas Gravity		Surface Pressure	psi
Initial Hydro Mud Pres.	2937	2889	Tool Opened	9:45 AM A.M. P.M.	Tool Closed	1:45 PM A.M. P.M.
Initial Closed in Pres.	1734	1655	Remarks	Tool opened for a 60 minute first flow.		
Initial Flow Pres.	8 1 52	134 2 151		Rotated for a 60 minute initial closed in		
Final Flow Pres.	134 1 154	214 2 228		pressure. Tool re-opened with a weak blow for		
Final Closed in Pres.	2001	1948		30 minutes then strong blow throughout test.		
Final Hydro Mud Pres.	2937	2775		Took a 60 minute final closed in pressure.		

FORMATION TEST DATA

10

ISMAV

29

B3

1

UNION OIL COMPANY OF CALIFORNIA

DURANGO

UTAH

Owner's District

Legal Location

29 40S 26E

Field Area

ISMAV

County

SAN JUAN

State

UTAH

Owner's District

Lease Owner/Company Name

Owner's District

Owner's District

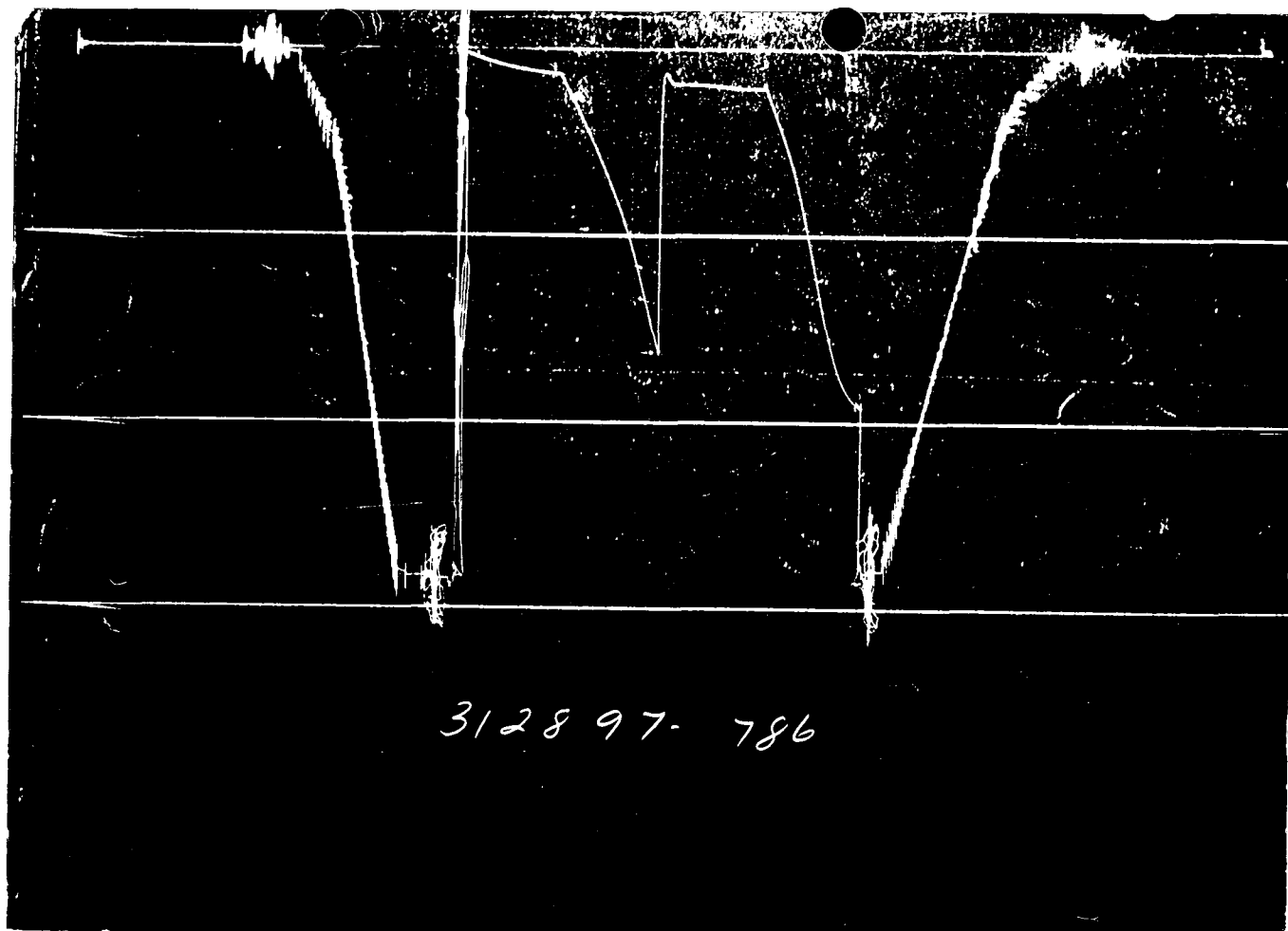
Gauge No.		786		Depth		5255'		Clock		12 hour		Ticket No.		312897	
First Flow Period			Initial Closed In' Pressure			Second Flow Period			Final Closed In Pressure						
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\phi}{\phi}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\phi}{\phi}$	PSIG Temp. Corr.					
P <sub>0</sub>	.000	14	.000		136	.000	146	.000		213					
P <sub>1</sub>	.067	45	.410		1638	.103	188	.040		354					
P <sub>2</sub>	.134	73				.206	195	.080		504					
P <sub>3</sub>	.201	98				.309	211	.120		538					
P <sub>4</sub>	.268	114				.412	213	.160		893					
P <sub>5</sub>	.335	127						.200		1442					
P <sub>6</sub>	.402	136						.240		1403					
P <sub>7</sub>								.280		1634					
P <sub>8</sub>								.320		1790					
P <sub>9</sub>								.360		1879					
P <sub>10</sub>								.400		1926					

Gauge No. 730			Depth 5326'			Clock 24		hour		
P <sub>0</sub>	.000	52	.000		154	.000	151	.000		228
P <sub>1</sub>	.032	80	.203		1655	.0497	202	.0198		362
P <sub>2</sub>	.064	103				.0994	213	.0396		519
P <sub>3</sub>	.096	122				.1491	228	.0594		689
P <sub>4</sub>	.128	137				.1988	228	.0792		908
P <sub>5</sub>	.160	147						.0990		1141
P <sub>6</sub>	.192	154						.1188		1408
P <sub>7</sub>								.1386		1645
P <sub>8</sub>								.1584		1809
P <sub>9</sub>								.1782		1900
P <sub>10</sub>								.1980		1948
Reading Interval 10						15		6 Minutes		

REMARKS:

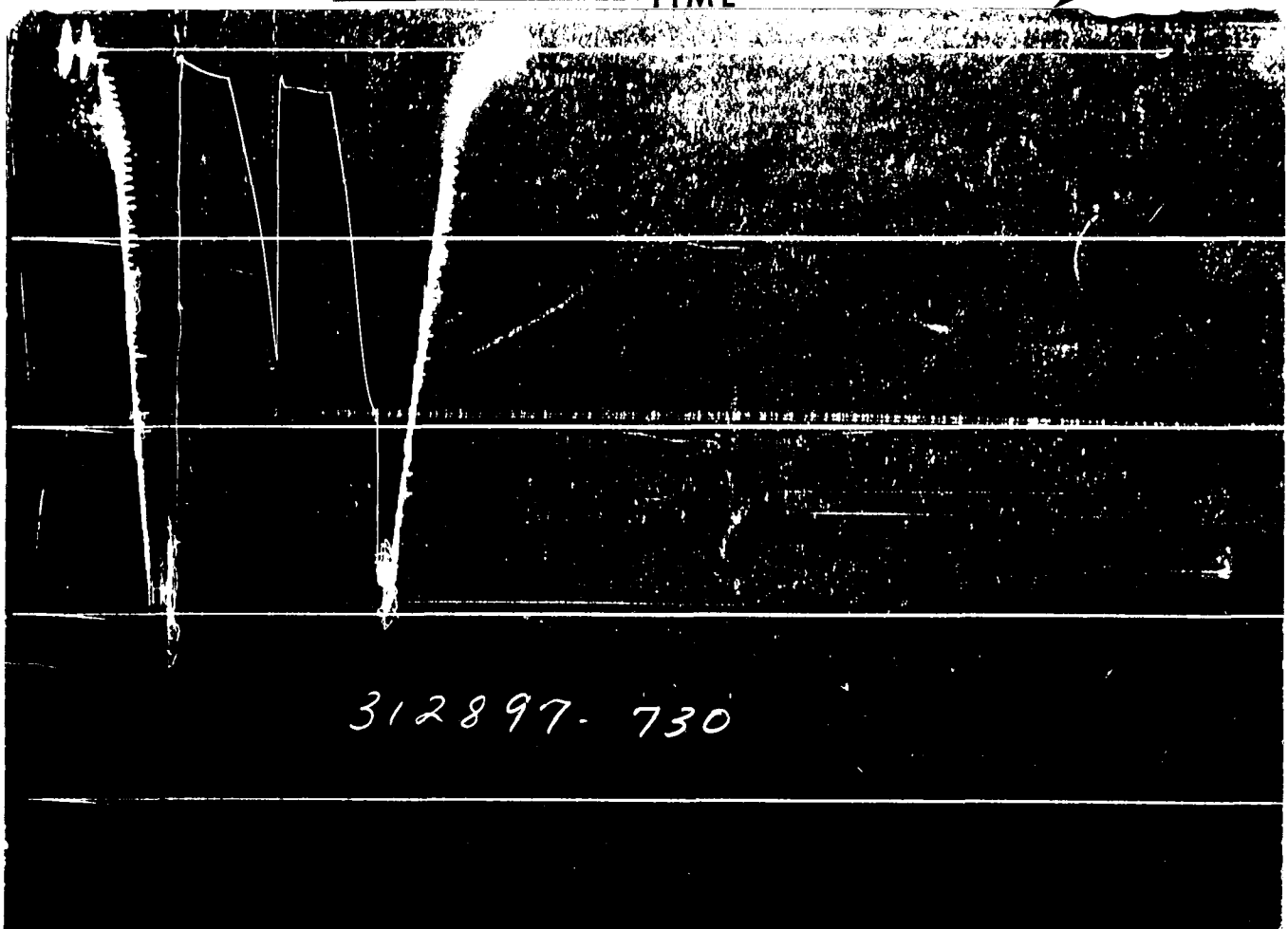
SPECIAL PRESSURE DATA

PRESSURE



312897-786

TIME



312897-730

Each Horizontal Line Equal to 1000 p.s.i.

Flow Time	1st	Min.	2nd	Min.	Date	9-8-66	Ticket Number	312898 - S
Closed In Press. Time	1st	Min.	2nd	Min.	Kind of Job	OPEN HOLE	Halliburton District	FARMINGTON
Pressure Readings	Field		Office Corrected		Tester	MR. WHITESIDES	Witness	MR. GUSTABSON
Depth Top Gauge	5309 Ft.		Blanked Off		Drilling Contractor	J. C. MAN DRILLING COMPANY IC		
BT. P.R.D. No.	256		12 Hour Clock		Elevation	-	Top Packer	5324'
Initial Hydro Mud Pressure	3049		2994		Total Depth	5375'	Bottom Packer	5329'
Initial Closed in Pres.	-		-		Interval Tested	5329'-5375' (30')	Formation Tested	ISMAY
Initial Flow Pres.	733		2 607		Casing or Hole Size	7 7/8"	Casing Perfs. } Top	-
Final Flow Pres.	878		2 917		Surface Choke	1"	Bottom Choke	3/4"
Final Closed in Pres.	2179		2100		Size & Kind Drill Pipe	4 1/2" X.H.	Drill Collars Above Tester	I.D. - LENGTH 2 1/4"-690'-90'
Final Hydro Mud Pressure	-		2994		Mud Weight	11.0	Mud Viscosity	55
Depth Cen. Gauge	Ft.		Blanked Off		Temperature	135 °F Est.	Anchor Size & Length	ID 2 1/4" X 15' OD 6"
BT. P.R.D. No.	-		Hour Clock		Depths Mea. From	ROTARY TABLE	Depth of Tester Valve	5304' Ft.
Initial Hydro Mud Pres.					TYPE	AMOUNT	Depth Back Pres. Valve	Ft.
Initial Closed in Pres.					Cushion	-		
Initial Flow Pres.	1				Recovered	-	Feet of	
Final Flow Pres.	2				Recovered	-	Feet of	
Final Closed in Pres.	1				Recovered	-	Feet of	
Final Hydro Mud Pres.	2				Recovered	-	Feet of	
Depth Bot. Gauge	5371 Ft.		YES Blanked Off		Oil A.P.I. Gravity	40°	Water Spec. Gravity	-
BT. P.R.D. No.	140		24 Hour Clock		Gas Gravity	-	Surface Pressure	- psi
Initial Hydro Mud Pres.	3023		3010		Tool Opened	9:05 AM	Tool Closed	10:35 AM
Initial Closed in Pres.	-		-		Remarks	Opened tool for 30 minute flow period with a		
Initial Flow Pres.	521		2 578		strong blow; gas to surface in 15 minutes and oil			
Final Flow Pres.	939		2 924		in 20 minutes. Closed tool for 60 minute final			
Final Closed in Pres.	2087		2110		closed in pressure.			
Final Hydro Mud Pres.	-		3010		40 barrels per hour, 30' net pay, 40 gravity oil			
					as per J. Manchester.			

FORMATION TEST DATA

10

ISMAY 29

B-3

2

UNION OIL COMPANY OF CALIFORNIA

DURANGO

Legal Location  
Sec. - Twp. - Rng.

SEC. 29 - LOS - 26E

Field Area

ISMAY

County

SAN JUAN

State

UTAH

Lease Owner/Company Name

Owner's District

Lease Name

Well No.

Test No.



Gauge No. 256			Depth 5309'			Clock 12 hour		Ticket No. 312898		
First Flow Period			Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.
P <sub>0</sub>						.000	607	.000		921'
P <sub>1</sub>						.0286	728	.006	1.395	1720'
P <sub>2</sub>						.0572	787	.010	1.184	1892'
P <sub>3</sub>						.0858	817	.0451	.620	1971
P <sub>4</sub>						.1144	890	.0902	.432	2022
P <sub>5</sub>						.1430	917			
P <sub>6</sub>								.1353	.313	2046
P <sub>7</sub>								.1804	.252	2064
P <sub>8</sub>								.2255	.212	2072
P <sub>9</sub>								.2706	.184	2082
P <sub>10</sub>								.3157	.162	2090
Clock stopped at the beginning of 2nd flow period. Approximately 21 minutes recorded. Cut into 5 equal intervals.								.3608	.144	2092
								.4059	.121	2097
								.4510	.119	2100





  

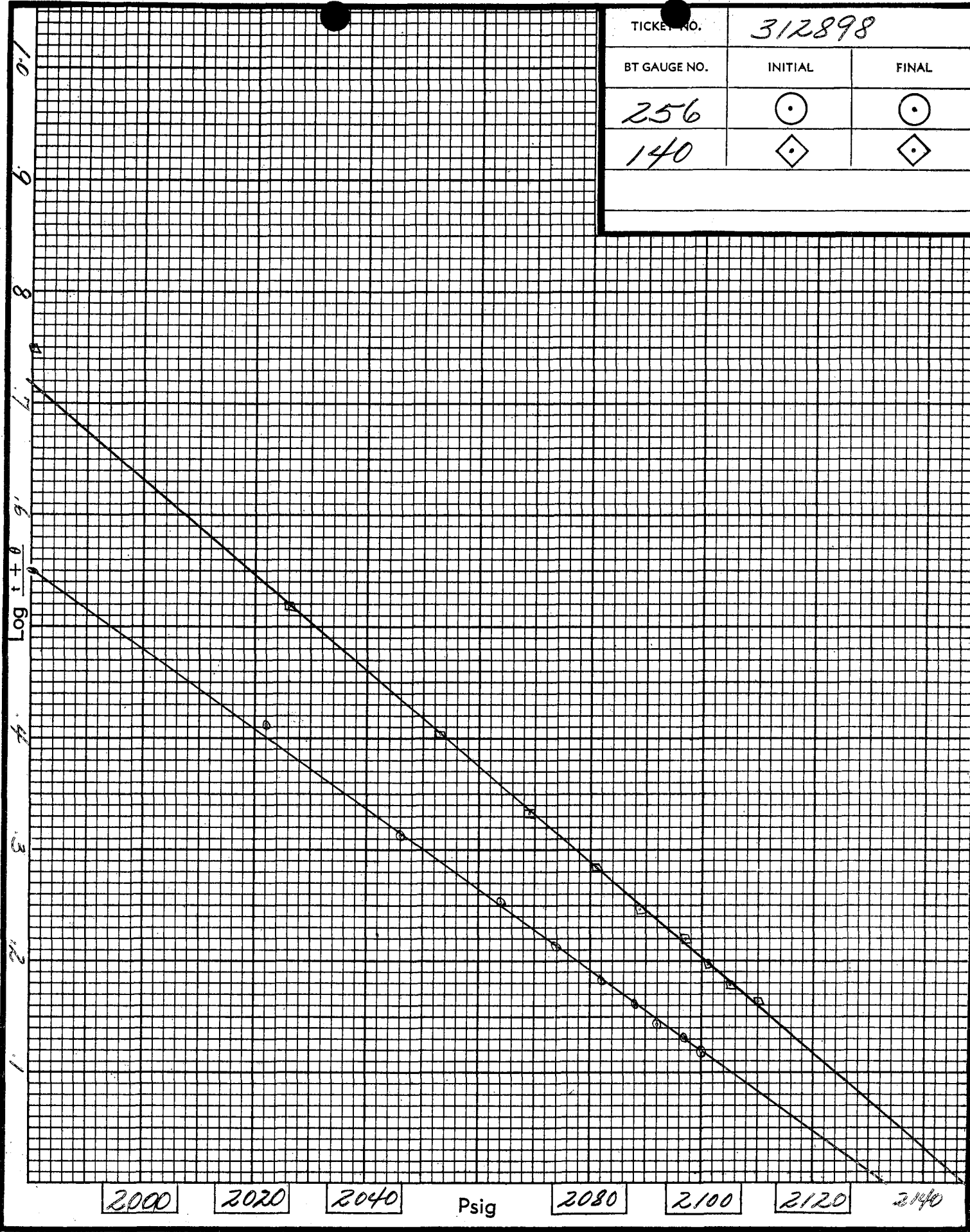
Gauge No. 140			Depth 5371'			Clock 24 hour				
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.
P <sub>0</sub>						.000	578	.000		924'
P <sub>1</sub>						.0194	546	.002	1.694	1808'
P <sub>2</sub>						.0388	702	.005	1.329	1872'
P <sub>3</sub>						.0582	795	.021	.749	1930'
P <sub>4</sub>						.0776	872	.042	.522	2006
P <sub>5</sub>						.0970	924	.053	.404	2058
P <sub>6</sub>								.084	.333	2069
P <sub>7</sub>								.105	.284	2082
P <sub>8</sub>								.126	.247	2096
P <sub>9</sub>								.147	.220	2107
P <sub>10</sub>								.168	.197	2112
								.189	.179	2105
								.210	.164	2110

Reading Interval						6		Minutes		
REMARKS:						unequal intervals				

SPECIAL PRESSURE DATA

TICKET NO.	312898	
BT GAUGE NO.	INITIAL	FINAL
256		
140		



EXTRAPOLATED PRESSURE GRAPH

# Liquid Production

B.T. Gauge Numbers			256	140	Ticket Number		312898
Initial Hydrostatic			PRESSURE 2994**	PRESSURE 3010	Elevation		0 ft.
Final Hydrostatic			2994	3010	Indicated Production		1st Flow * bbls. day
1st Flow	Initial	Time -----	607	578	Total Flow		* bbls. day
	Final	-	917	924	Drill Collar Length		690 ft.
Initial Closed In Pressure			-	2100	Drill Collar I.D.		2 1/4 in.
2nd Flow	Initial	-----	-	-	Drill Pipe Factor		0.0142 bbls. ft.
	Final	30	-	-	Hole Size		7 7/8 in.
Final Closed In Pressure			60	-	Footage Tested EST.		30 ft.
Extrapolated Static Pressure	Initial		2133	2047	Mud Weight		11.0 lbs. gal.
	Final		-	-	Viscosity, Oil or Water		2.0 cp
Slope psi/cycle P10	Initial		1855	1915	Oil API Gravity EST.		40°
	Final		-**	-	Water Specific Gravity		-

Remarks: \*Results shown on initial of B.T.#140 calculated on pressure change of 30 minutes of initial flow period. Results show on final of B.T.#140 based on reported data of 40 barrels per hour.  
 \*\*Unable to use initial flow period for B.T.#256 because we were not able to determine initial flow point with respect to time.

SUMMARY		Gauge No. Depth 256/5309'		Gauge No. Depth 140/5371'		
Product	Equation	Initial	Final	Initial	Final	Units
Production	$Q = \frac{1440 R}{t}$			722.	960.	bbls. day
Transmissability	$\frac{Kh}{\mu} = \frac{162.6 Q}{m}$			889.	1182.	md. ft. cp
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu} \mu$			1779.	2365.	md. ft.
Average Effective Permeability	$K = \frac{Kh}{h}$			59.30	78.83	md.
	$K_i = \frac{Kh}{h_i}$			-	-	md.
Damage Ratio	$DR = .183 \frac{P_s - P_f}{m}$			1.55	1.55	-
Theoretical Potential w/Damage Removed	$Q_1 = Q DR$			1124	1494	bbls. day
Approx. Radius of Investigation	$b \approx \sqrt{Kt}$ or $\sqrt{Kt_0}$			42.2	48.6	ft.
	$b_1 \approx \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$			-	-	ft.
Potentiometric Surface *	$Pot. = EI - GD + 2.319 P_s$			-624.	-624.	ft.

**NOTICE:** These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

## INTERPRETATIONS AND CALCULATIONS

PRESSURE

TIME

312898 - 256<sup>#</sup>

312898 - 140<sup>#</sup>

Each Horizontal Line Equal to 1000 p.s.i.

Flow Time	1st 30 Min.	2nd 15 Min.	Date	9-10-66	Ticket Number	312899	S
Closed In Press. Time	1st 30 Min.	2nd 15 Min.	Kind of Job	STRADDLE OPEN HOLE	Halliburton District	FARMINGTON	
Pressure Readings	Field	Office Corrected	Tester	WHITESIDES	Witness	-	
Depth Top Gauge	5366 Ft.	Blanked Off	Drilling Contractor	J.C. MAN DRILLING COMPANY	SM	LC	
BT. P.R.D. No.	256	12 Hour Clock	Elevation	-	Top Packer	5381' 5366	
Initial Hydro Mud Pressure	2904	2940	Total Depth	5550'	Bottom Packer	5385' 5370	
Initial Closed in Pres.	2034	2078	Interval Tested	Net pay 16' 5385' - 5401'	Formation Tested	Lower Ismay	
Initial Flow Pres.	265 1 364	1023 2 1111	Casing or Hole Size	5370 5386 7 7/8"	Casing Perfs.	Top Bot.	
Final Flow Pres.	1023 1 1088	- 2 1038	Surface Choke	1"	Bottom Choke	3/4"	
Final Closed in Pres.	2034	2049	Size & Kind Drill Pipe	4 1/2" XH	Drill Collars Above Tester	I.D. - LENGTH 2 1/4" 90' - 870'	
Final Hydro Mud Pressure	2904	2940	Mud Weight	10.9	Mud Viscosity	59	
Depth Cen. Gauge	Ft.	Blanked Off	Temperature	136 °F Est. °F Actual	Anchor Size & Length	ID 2 1/4" OD 3 1/2" X 16'	
BT. P.R.D. No.		Hour Clock	Depths Meas. From	Rotary Table	Depth of Tester Valve	5311 Ft.	
Initial Hydro Mud Pres.			Cushion	-	Depth Back Pres. Valve	-	
Initial Closed in Pres.			Recovered	5356	Feet of	Highly gas cut oil.	
Initial Flow Pres.	1		Recovered	30	Feet of	muddy oil cut water.	
Final Flow Pres.	1		Recovered		Feet of		
Final Closed in Pres.			Recovered		Feet of		
Final Hydro Mud Pres.			Oil A.P.I. Gravity		Water Spec. Gravity		
Depth Bot. Gauge	5396 Ft.	yes Blanked Off	Gas Gravity		Surface Pressure	psi	
BT. P.R.D. No.	140	24 Hour Clock	Tool Opened	1:20 P.M.	A.M. P.M.	Tool Closed	A.M. P.M.
Initial Hydro Mud Pres.	2879	2964	Remarks	Opened tool for a 30 minute initial flow with			
Initial Closed in Pres.	2015	2088	a strong blow. Took a 30 minute initial flow. Re-				
Initial Flow Pres.	260 1 490	1011 2 1150	opened tool for a 15 minute final flow with strong				
Final Flow Pres.	1011 1 1110	- 2 1076	blow. Gas to surface in 20 minutes, oil to surface				
Final Closed in Pres.	2015	2062	in 35 minutes. Closed tool for a 15 minute final				
Final Hydro Mud Pres.	2879	2964	closed in pressure. 30 BBLS/hr. as per J. Manchester				
			40° AP.L. Gravity as per Tippitt				





FORMATION TEST DATA

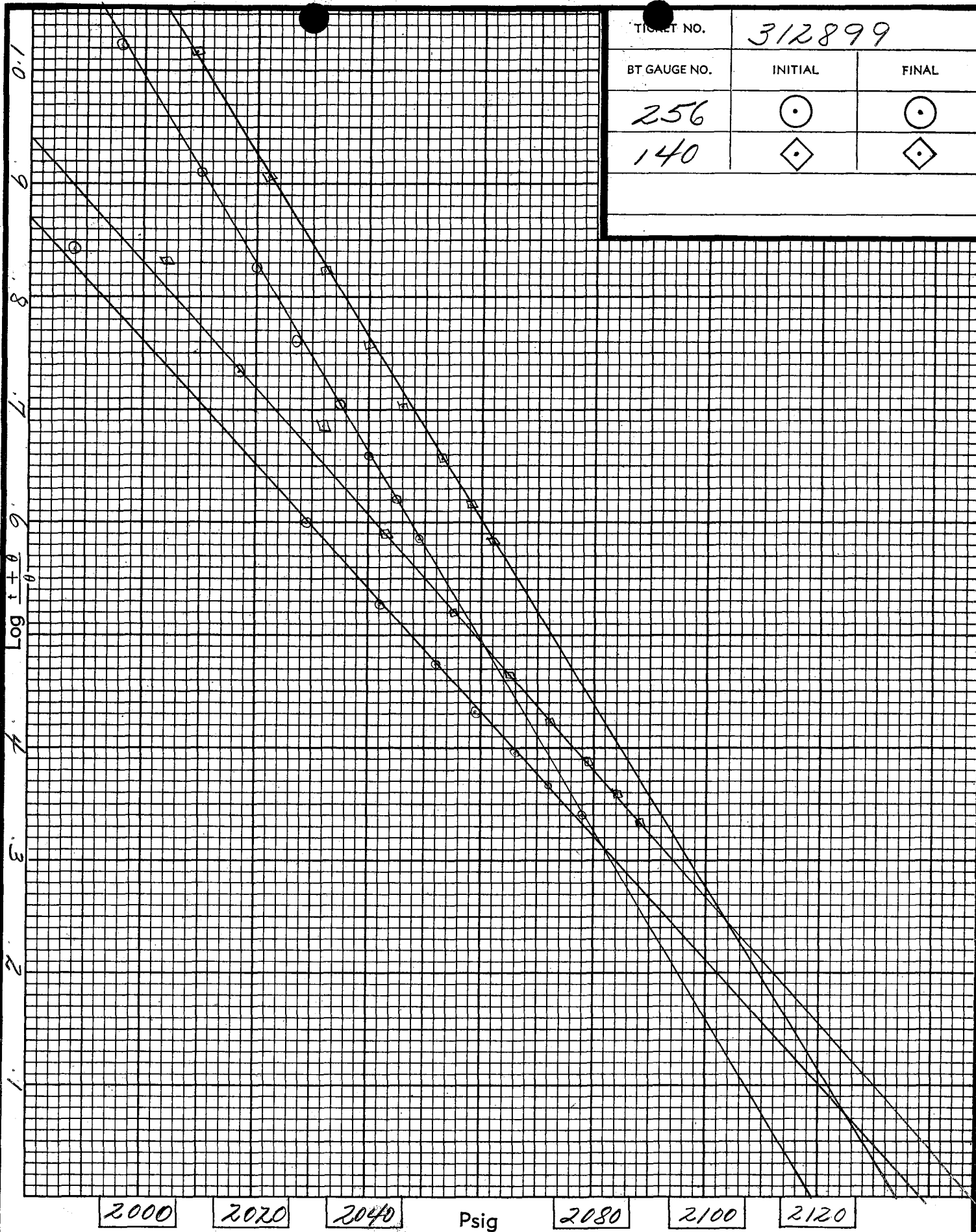
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Gauge No. 256			Depth 5366'			Clock 12 hour		Ticket No. 312899		
First Flow Period			Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P <sub>0</sub>	.000	364	.000	-	1088	.000	1111	.000	-	1038
P <sub>1</sub>	.0458	431	.0192	1.111	1949	.0176	1039	.0111	1.470	1941
P <sub>2</sub>	.0916	604	.0384	.842	1988	.0352	1091	.0222	1.184	1975
P <sub>3</sub>	.1374	777	.0576	.735	2017	.0528	1114	.0333	1.022	1996
P <sub>4</sub>	.1832	930	.0768	.600	2029	.0704	1088	.0444	.910	2010
P <sub>5</sub>	.2290	1088	.0960	.529	2042	.0880	1038	.0555	.826	2020
P <sub>6</sub>			.1152	.475	2052			.0666	.760	2027
P <sub>7</sub>			.1344	.431	2059			.0777	.705	2035
P <sub>8</sub>			.1536	.396	2066			.0888	.659	2040
P <sub>9</sub>			.1728	.366	2072			.0999	.620	2045
P <sub>10</sub>			.1920	.340	2078			.1110	.586	2049

Gauge No. 140			Depth 5396'			Clock 24 hour				
P <sub>0</sub>	.000	490	.000	-	1110	.000	1150	.000	-	1076
P <sub>1</sub>	.022	513	.0095	1.099	1964	.0086	1075	.0054	1.467	1961
P <sub>2</sub>	.044	658	.0190	.831	2004	.0172	1120	.0108	1.180	1990
P <sub>3</sub>	.066	821	.0285	.686	2032	.0258	1145	.0162	1.018	2009
P <sub>4</sub>	.088	965	.0380	.590	2043	.0344	1126	.0216	.907	2022
P <sub>5</sub>	.110	1110	.0475	.520	2055	.0430	1076	.0270	.823	2032
P <sub>6</sub>			.0570	.466	2065			.0324	.757	2040
P <sub>7</sub>			.0665	.423	2072			.0378	.703	2046
P <sub>8</sub>			.0760	.388	2079			.0432	.657	2053
P <sub>9</sub>			.0855	.359	2084			.0486	.617	2058
P <sub>10</sub>			.0950	.334	2088			.0540	.583	2062
Reading Interval 6			3			3		1.5 Minutes		
REMARKS:										

**SPECIAL PRESSURE DATA**

TICKET NO.	312899	
BT GAUGE NO.	INITIAL	FINAL
256		
140		



EXTRAPOLATED PRESSURE GRAPH

# Liquid Production

B.T. Gauge Numbers		256	140	Ticket Number		312899
Initial Hydrostatic		PRESSURE 2940	PRESSURE 2964	Elevation		0 ft.
Final Hydrostatic		2940	2964	Indicated Production		1st Flow --* bbls. day
1st Flow	Initial	Time ----- 364	490	Total Flow		--* bbls. day
	Final	30	1088	Drill Collar Length		690 ft.
Initial Closed In Pressure		30	2078	Drill Collar I.D.		2 1/4 in.
2nd Flow	Initial	----- 1111	1150	Drill Pipe Factor		0.01422 bbls. ft.
	Final	15	1038	Hole Size		7 7/8 in.
Final Closed In Pressure		15	2049	Footage Tested		16 Net ft.
Extrapolated Static Pressure	Initial	2119	2134	Mud Weight		10.9 lbs. gal.
	Final	2138	2148	Viscosity, Oil or Water		2.0 cp
Slope extrapolated P 10	Initial	1957	1969	Oil API Gravity Estimate		40 °
	Final	1999	2010	Water Specific Gravity		--

Remarks: \* The calculation results as shown on the initials are based on pressure changes of 24 minutes of the first flow period. The results as shown on the finals are based on a flow rate of 30 Bbls. per hour estimated.

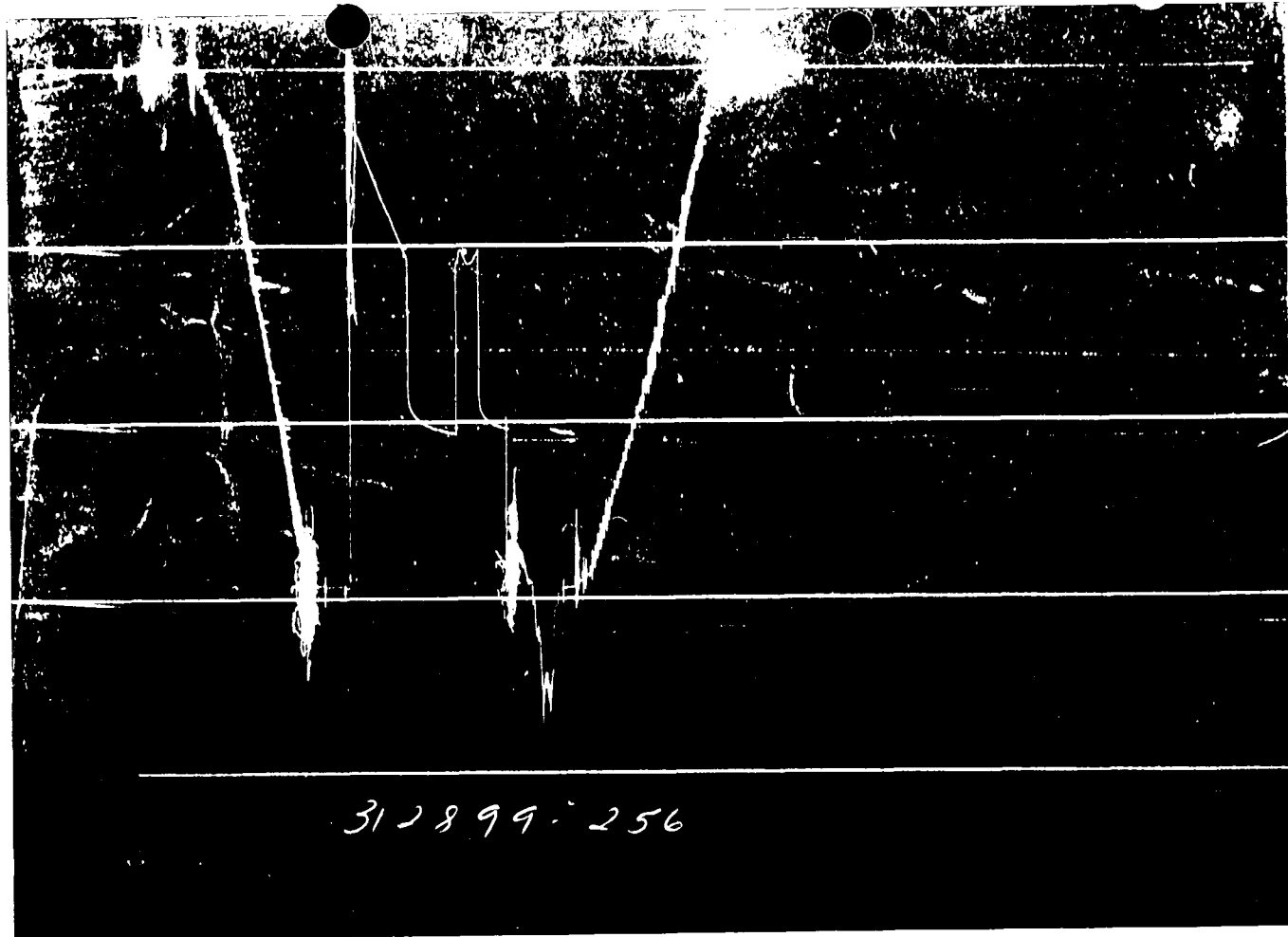
SUMMARY		Gauge No. 256 Depth 5366'		Gauge No. 140 Depth 5396'		
Product	Equation	Initial	Final	Initial	Final	Units
Production	$Q = \frac{1440 R}{t}$	1568	720	1425	720	bbls. day
Transmissability	$\frac{Kh}{\mu} = \frac{162.6 Q}{m}$	1574	842	1404	848	md. ft. cp
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu} \mu$	3149	1684	2809	1696	md. ft.
Average Effective	$K = \frac{Kh}{h}$	--	--	--	--	md.
Permeability	$K_i = \frac{Kh}{h_i}$	196.83	105.28	175.60	106.04	md.
Damage Ratio	$DR = .183 \frac{P_s - P_f}{m}$	1.165	1.448	1.137	1.421	--
Theoretical Potential w/Damage Removed	$Q_1 = Q DR$	1827	1042	1619	1023	bbls. day
Approx. Radius of Investigation	$b \approx \sqrt{Kt}$ or $\sqrt{Kt_0}$	--	--	--	--	ft.
	$b_1 \approx \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$	76.8	68.8	72.5	69.0	ft.
Potentiometric Surface *	$Pot. = EI - GD + 2.319 P_s$	-452	-407	-447	-414	ft.

**NOTICE:** These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

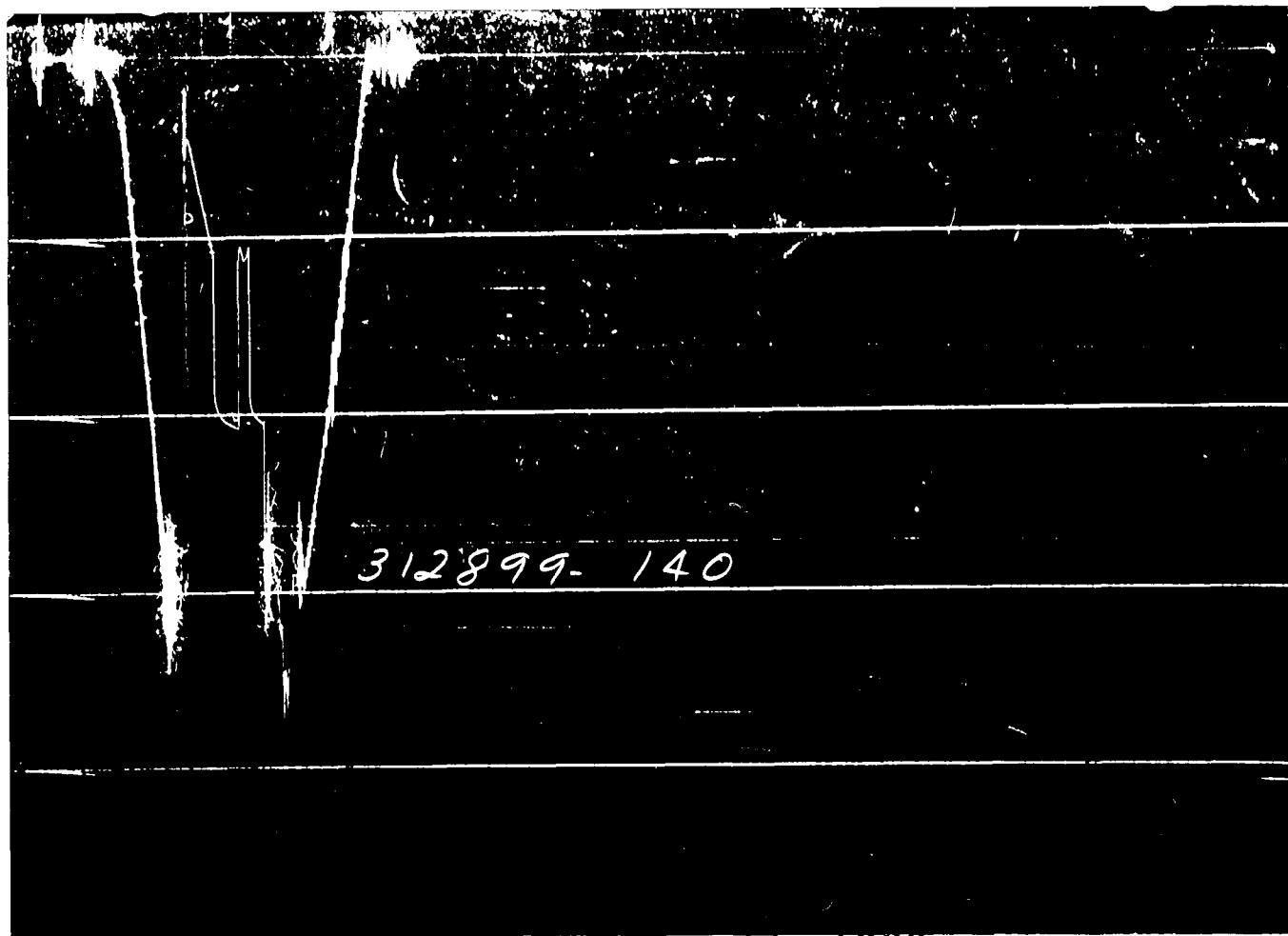
## INTERPRETATIONS AND CALCULATIONS



PRESSURE



TIME



Each Horizontal Line Equal to 1000 p.s.i.

UNITED STATES  
DEPARTMENT OF INTERIOR  
GEOLOGICAL SURVEY

Allottee Navajo  
Tribe Navajo  
Lease No. 14-20-603-2055

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for month of August, 1966.

Agent's address P. O. Box 1611 Company Union Oil Company of California  
Casper, Wyoming Signed R. E. Davis

Phone 234-1563 Agent's title District Office Manager

Sec. and 1/4 of 1/4	Twp.	Range	Well No.	Days Pro- duced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In Thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	REMARKS: (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE NW Sec. 29 Ismay 29-B3	40N	26E								Location: 2,227' FSL and 2,072' FWL. KB elevation: 4,705'. Spudded at 1:00 p.m. 8-21-66. Drilled to 160'. Set 5 jts., 160.74', of 13-3/8" 48# casing at 159'. Cemented with 150 sax 50-50 Pozmix, 2% gel, 2% calcium chloride. No returns. Cemented from top with 75 sax regular cement with 2% calcium chloride. Drilled to 1,510'. Had 6" stream of water. Set 47 jts. of 8-5/8" J-55 54# casing at 1,509'. Cemented with 630 cu. ft. of 50-50 Pozmix, 4% gel. After cementing well continued to flow 6" stream of water. Ran 1" tubing to 80' and cemented with 50 sax regular cement. Well dead approximately 15 minutes then resumed flowing 1-1/2" stream of water. Set casing on slips and shut off water flow. Drilled to 4,300' - Incomplete.

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;  
No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

August 11, 1966

Union Oil Company of California  
P.O. Box 1611  
Casper, Wyoming

Re: Well No. Ismay #29-B3,  
Sec. 29, T. 40 S., R. 26 E.,  
San Juan County, Utah.  
api 43-037-20116.

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well on said unorthodox location is hereby granted in accordance with Rule C-3 (c) and the Order issued in Cause No. 54 dated May 9, 1961.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL, Chief Petroleum Engineer  
HOME: 277-2890 - Salt Lake City, Utah  
OFFICE: 328-5771 - 328-5772 - 328-5773

This approval terminates within 90 days if the well has not been spudded-in within said period. Enclosed please find Form OGCC-8-X, which is to be completed if water sands (aquifers) are encountered while drilling, particularly accessible near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT  
EXECUTIVE DIRECTOR

GBF: JW  
cc: P.T. McGrath, District Engineer  
U.S. Geological Survey  
Farmington, New Mexico

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Form 9-331b  
(April 1952)

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee Navajo Tribe

Lease No. 14-20-603-2055

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	<b>X</b>
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 24, 19 66

Well No. 29-B3 is located 2227 ft. from S line and 2072 ft. from E line of sec. 29

NW NW SW Sec. 29 408 26E N.M.P.M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Wildcat San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the KB ~~shut-in~~ above sea level is 4705 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded at 1:00 p.m. 8-21-66. Drilled 12-1/4" hole to 160'. Reamed to 17-1/4". Set 5 jts., 160.74', 13-3/8" 48# casing at 159'. Cemented with 150 sax 50-50 Pozmix, 2% gel, 2% calcium chloride. No returns. Waited 3 hours. Cemented from top with 75 sax regular cement with 2% calcium chloride. Filled annulus to surface. Job complete at 5:00 p.m. 8-22-66.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Union Oil Company of California

Address P. O. Box 1611  
Casper, Wyoming

ORIGINAL SIGNED BY  
W. J. Mansbridge

By W. J. Mansbridge  
Title District Drilling Superintendent

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYIndian Agency NavaajoAllottee Navaajo TribeLease No. 11-20-603-2055

## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	<b>X</b>
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 25, 1966Well No. 29-83 is located 2227 ft. from NS line and 2072 ft. from W line of sec. 29NW NW SW Sec. 29  
(¼ Sec. and Sec. No.)40S  
(Twp.)26E  
(Range)N.M.P.M.  
(Meridian)Wildcat  
(Field)San Juan  
(County or Subdivision)Utah  
(State or Territory)The elevation of the KB ~~datum~~ above sea level is 4705 ft.

## DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drilled to 1,510' with 12-1/4" bit. Had 6" stream flow of water. Set 47 jts. of 8-5/8" 5lb J-55 casing at 1,509'. Cemented with 630 cu. ft. 50-50 Pozmix, 4% gel. After cementing, well continued to flow 6" stream of water. Ran 1" tubing string down annulus to 80'. Cemented with 50 sack regular cement. Well dead approximately 15 minutes then resumed 1-1/2" stream flow of water. Set casing on slips packoff. Shut off water flow. Plug down at 5:00 a.m. 8-25-66. Now W.O.G.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Union Oil Company of CaliforniaAddress P. O. Box 1611Casper, Wyoming234-1563

Original Signed

P. F. COCHRAN

By

P. F. Cochran

Title District Engineer

(SUBMIT IN TRIPLICATE)

Indian Agency NavajoUNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYAllottee Navajo TribeLease No. 14-20-603-2055

## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	<b>X</b>
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 26, 19 66Well No. Isney 29-23 is located 2227 ft. from KS line and 2072 ft. from W line of sec. 29NW NW SW Sec. 29  
(¼ Sec. and Sec. No.)408  
(Twp.)26E  
(Range)N. P. M.  
(Meridian)Wildont

(Field)

San Juan

(County or Subdivision)

Utah

(State or Territory)

The elevation of the ~~water level~~ KB above sea level is 4705 ft.

## DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

To shut off 1-1/2" water flow, performed bradenhead squeeze and squeezed off 8-5/8" casing annulus with 150 sac regular cement with 2% calcium chloride.  
Job complete at 1:30 p.m. 8-25-66.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Union Oil Company of CaliforniaAddress P. O. Box 1611Casper, Wyoming234-1563Original Signed  
P. F. COCHRANBy P. F. CochranTitle District Engineer

UNITED STATES  
DEPARTMENT OF INTERIOR  
GEOLOGICAL SURVEYAllottee Navajo  
Tribe Navajo  
Lease No. 14-20-603-2055

## LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field WildcatThe following is a correct report of operations and production (including drilling and producing wells) for month of September, 1966.Agent's address P. O. Box 1611 Company Union Oil Company of California  
Casper, Wyoming Signed R. E. NearingPhone 234-1563 Agent's title District Office Manager

Sec. and 1/4 of 1/4	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (in Thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS: (if drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE NW Sec. 29 Ismay	40S	26E	29-B3	15	3,310	43.0	3,214	-	7	Drilled 4,300' to 5,330'. DST No. 1-5,275' - 5,330'. Drilled to 5,375'. DST No. 2 - 5,330' - 5,375'. Drilled to 5,550' TD. Ran electric logs. Set 172 jts. of 5-1/2" casing at 5,549'. Cemented with 250 sax 50-50 Diamix "A", 10% salt and 1% friction reducer. Plug down at 9:15 a.m. 9-11-66. Released rig. Moved in service rig. Ran Lane-Wells Gamma Ray Correlation Log and Bond Log. Perforated 5,366' - 5,375' and 5,306' - 5,319' with Lane-Wells NCF II, 4 shots per foot. Ran tubing and packer. Set packer at 5,338'. On 9-18-66 acidized with 2000 gals. reg. 15% with non-emulsifier. On 9-19-66. Swabbed well in. Acidized with 3000 gals. Dowell CRA. Swabbed well in. Ran bottom hole pressure recorder. On 9-20-66 injected 3000 gals. 15% regular acid with non-emulsifier plus 12 bbls. to spot opposite perms 5,306' - 19'. Swabbed well in. Flowed on test. Killed well. Pulled 2 jts. tubing, set packer at 5,286'. 9-30-66 flowed 2 1/2 hours, 6 1/2" choke, 156 bbls. of fluid, 0.2% BS and .2% water, 226 MCF gas, TP 75, CF 400. Testing - Incomplete.
NE SE Sec. 30 Ismay	40S	26E	30-D3							Location: 1,876' FSL and 924' FHL. Elevations: GL 4,872'; KB 4,884'. Spudded at 2:30 p.m. 9-26-66. Drilled to 167'. Set 5 jts. 13-9/8" 48# casing at 163'. Cemented with 140 sax 50-50 Poz, 2% calcium chloride. Plug down at 11:10 p.m. 9-27-66. Good returns. Drilled to 1,709'. Set 54 jts. of 8-5/8" 24# casing at 1,705'. Cemented with 1200 sax 50-50 Diamix "A" plus 10% salt. Plug down at 4:25 a.m. 9-30-66. Good returns. W.O.C.

NOTE.—There were 3,128.00 bbls. runs or sales of oil; No M cu. ft. of gas sold;  
No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN THE MANNER  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

Navajo 14-20-603-2055

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Imay

9. WELL NO.

20-23

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC. T. R. M. OR BLM. AND  
SURVEY OR AREA

Sec. 29, T-40N, R-26E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

1.

OIL WELL ☐ GAS WELL ☐ OTHER **Drilling Well**

2. NAME OF OPERATOR

Union Oil Company of California

3. ADDRESS OF OPERATOR

P. O. Box 1611 - Casper, Wyoming

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*

See also space 17 below.)

At surface 2,227' FSL and 2,072' FWL (NW NW SW)

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

KB 4,705'

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENTS

**Supplemental Well History**

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Drilled to 5,330'.

On 9-7-66 ran DST No. 1 - 5,275' - 5,330'. Tool open 1 hour, shut in 1 hour, open 1 hour, shut in 1 hour. Tool opened with weak blow increasing to strong blow in 30 minutes. Remained strong throughout remaining 1/2 hour and final hour. Gas to surface in 1 hour and 45 minutes. Recovered 360' of fluid - 180' highly gas out drilling mud and 180' very highly oil and gas out drilling mud with some free oil. Pressures: IH & FH 2937; IF 8 - 134; IHI 1734; FF 134 - 214; FHI 2001; BHT 135° F.

Drilled to 5,375'. On 9-8-66 ran DST No. 2 - 5,330' - 5,375'. Tool open 30 minutes, shut in 1 hour. Opened with immediate strong blow - continued for 20 minutes. Gas to surface in 15 minutes, oil to surface in 20 minutes - continued to flow to end of 30 minute opening period. Recovered 5,375' of gas out oil, no water. Pressures: IH & FH 3023; IF 521; FF 939; FHI 2087.

Going in hole to drill to TD, approximately 5,550'.

18. I hereby certify that the foregoing is true and correct

ORIGINAL SIGNED BY  
W. J. Mansbridge

SIGNED

W. J. Mansbridge

(This space for Federal or State office use)

TITLE **Dist. Drilling Supt.**

DATE **Sept. 8, 1966**

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT INSTRUCTIONS  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

Navajo 14-20-603-2055

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Ismay

9. WELL NO.

29-B3

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLM. AND  
SURVEY OR AREA

Sec. 29, T-40S, R-26E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ Drilling Well

2. NAME OF OPERATOR

Union Oil Company of California

3. ADDRESS OF OPERATOR

P. O. Box 1611 - Casper, Wyoming

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

2,227' FSL and 2,072' FWL (NW NW SW)

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

KB 4,705'

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐Supplemental Well History ☒(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Drilled to 5,550' TD. Ran Schlumberger Dual Induction and Density Logs.

Ran DST No. 3 - 5,370' - 5,386'. Tool open 30 minutes, shut in 30 minutes, tool open 15 minutes, shut in 15 minutes. Opened with strong blow. Remained strong throughout. Gas to surface in 20 minutes, oil in 35 minutes. Recovered 5,356' of highly gas cut oil, 30' of mud and oil out water. Pressures: IN 2905; IF 265 - 1023; IS 2034; FF 1023 - 1023; FSI 2034; FN 2904; HT 135°.

Set 172 jts. of 5-1/2" 17# and 15.5# casing at 5,549'. Cemented with 250 sac 50-50 Diamix A, 10% salt and 1% friction reducer. Preceded with 500 gal. mud sweep. Plug down at 9:15 a.m. 9-11-66. Good returns throughout job.

Rig released at 9:30 a.m. 9-11-66. Now preparing to move out rotary rig and move in service rig.

18. I hereby certify the foregoing to be true and correct

SIGNED W. J. MansbridgeTITLE District Drilling Supt.DATE 9-12-66W. J. Mansbridge

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN THE MANNER  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <b>Drilling Well</b>		5. LEASE DESIGNATION AND SERIAL NO. <b>Navajo 14-20-603-2055</b>	
2. NAME OF OPERATOR <b>Union Oil Company of California</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>Navajo</b>	
3. ADDRESS OF OPERATOR <b>P. O. Box 1611 - Casper, Wyoming</b>		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>2,227' FSL and 2,072' FWL (NE NE SW)</b>		8. FARM OR LEASE NAME <b>Yummy</b>	
14. PERMIT NO.		9. WELL NO. <b>29-B3</b>	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>KB 4,705'</b>		10. FIELD AND POOL, OR WILDCAT <b>Wildcat</b>	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 29, T-40S, R-26E</b>	
		12. COUNTY OR PARISH <b>San Juan</b>	
		13. STATE <b>Utah</b>	

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) **Supplemental Well History** ☒REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Rigged up service rig. Ran Lane-Wells Correlation Log and Bond Log. Lane-Wells perforated with 4 NCF II shots per foot from 5,366' to 5,375' and 5,306' to 5,319'. Ran 2-7/8" tubing. Located packer at 5,338' but did not set. Reversed water out of hole with 115.42 bbls. of oil. Swabbed well in. Recovered all load oil. Flowed well on test. Set packer at 5,338'. On 9-17-66 acidized with 2000 gals. 15% regular acid with non-emulsifier. Injected oil at 600 to 800 psi for 2 hours. When acid hit formation, went on vacuum. Injected 2000 gals. in 33 minutes at 50 psi. Swabbed well in. On 9-18-66 acidized with 3000 gals. Dowell CRA, 2-1/2 to 3 NCF with 0 psi. Swabbed well in after 3 hours shut in time. Flowed on test until 3:30 p.m. 9-20-66 when well was shut in with bottom hole pressure recorder at 5,379'. Pulled recorder 9-21-66. Recorder showed 1300 psi extrapolated to 100 hrs. Loaded hole with 138 bbls. of oil. Injected 3000 gals. 15% regular acid with non-emulsifier plus 12 bbls. to spot opposite perfs 5,306' - 19'. Injected 8 bbls. in formation in 2 hours and 10 minutes then rate decreased to 2-1/2 to 3-1/2 bbls. per hour with surface pressure 800 psi. Still had 23 bbls. of acid, 966 gals., to inject after 15-1/2 hours at 7:00 a.m. 9-22-66.

18. I hereby certify that the foregoing is true and correct

SIGNED

W. J. Mansbridge

TITLE **District Drilling Supt.**DATE **9-22-66**

W. J. Mansbridge

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other in-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-R355.5.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____						5. LEASE DESIGNATION AND SERIAL NO. <b>Navajo 11-20-603-2055</b>									
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____						6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>Navajo</b>									
2. NAME OF OPERATOR <b>Union Oil Company of California</b>						7. UNIT AGREEMENT NAME									
3. ADDRESS OF OPERATOR <b>P. O. Box 1611 - Casper, Wyoming</b>						8. FARM OR LEASE NAME <b>Ismay</b>									
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface <b>2,227' FSL and 2,072' FWL (NE NE SW)</b>  At top prod. interval reported below  At total depth						9. WELL NO. <b>29-83</b>									
14. PERMIT NO. _____ DATE ISSUED _____						10. FIELD AND POOL, OR WILDCAT <b>Undesignated-Lower Ismay</b>									
15. DATE SPUDDED <b>8-21-66</b> 16. DATE T.D. REACHED <b>9-9-66</b> 17. DATE COMPL. (Ready to prod.) <b>10-5-66</b> 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* <b>KB 4,705'; GL 4,693'</b> 19. ELEV. CASINGHEAD						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA <b>Sec. 29, T-40S, R-26E</b>									
20. TOTAL DEPTH, MD & TVD <b>5,550'</b> 21. PLUG, BACK T.D., MD & TVD _____ 22. IF MULTIPLE COMPL., HOW MANY* _____ 23. INTERVALS DRILLED BY _____ ROTARY TOOLS <b>0' - 5550'</b> CABLE TOOLS						12. COUNTY OR PARISH <b>San Juan</b> 13. STATE <b>Utah</b>									
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* <b>Lower Ismay 5,306' - 5,375'</b>						25. WAS DIRECTIONAL SURVEY MADE <b>No</b>									
26. TYPE ELECTRIC AND OTHER LOGS RUN <b>Dual Induction-Laterolog Compensated Formation Density; Sidewall Neutron Porosity</b>						27. WAS WELL CORED <b>No</b>									
28. CASING RECORD (Report all strings set in well)															
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED					
13-3/8"		48#		159'		17-1/4"		150 max 50-50 Pos		-0-					
8-5/8"		54#		1,509'		12-1/4"		630 cu. ft. 50-50 Pozmix		-0-					
5-1/2"		17# & 15#		5,549'		7-7/8"		250 max 50-50 Diamix		-0-					
29. LINER RECORD								30. TUBING RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)		SIZE		DEPTH SET (MD)		PACKER SET (MD)	
										2-7/8"				5,286'	
31. PERFORATION RECORD (Interval, size and number) <b>5,366' - 75' - NCF II - 4 per ft. 5,306' - 19' - NCF II - 4 per ft.</b>								32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
								DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED					
								5,366'-75'		2000 gal. 15% reg. & 3000 Gal. CRA					
								5,306'-19'		3000 gal. 15% reg.					
33.* PRODUCTION															
DATE FIRST PRODUCTION <b>9-15-66</b>		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) <b>Flowing</b>						WELL STATUS (Producing or shut-in) <b>Producing</b>							
DATE OF TEST <b>1st ten day average</b>		HOURS TESTED		CHOKE SIZE <b>64/64"</b>		PROD'N. FOR TEST PERIOD →		OIL—BBL. <b>146 BOPD</b>		GAS—MCF. <b>187 Est.</b>		WATER—BBL. <b>-0-</b>		GAS-OIL RATIO <b>1280 Est.</b>	
FLOW. TUBING PRESS. <b>25</b>		CASING PRESSURE <b>450</b>		CALCULATED 24-HOUR RATE →		OIL—BBL. <b>146</b> ✓		GAS—MCF. <b>187 Est.</b> ✓		WATER—BBL. <b>-0-</b> ✓		OIL GRAVITY-API (CORR.) <b>43.0</b>			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) <b>Gas sales to El Paso Natural Gas Co. began 4:00 p.m. 11-9-66</b>										TEST WITNESSED BY <b>Robert Davis</b>					
35. LIST OF ATTACHMENTS															
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records <b>One page - Drill Stem Tests</b> <b>ORIGINAL SIGNED BY HAROLD SIMPSON</b> SIGNED <u>Harold Simpson</u> TITLE <u>District Superintendent</u> DATE <u>12-29-66</u>															

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Seals Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Morrison	409'		Water flow at 409' - no test.	LOG TOPS:	Surface	
Entrada	700'		At 700' - 5"-6" stream of water	Morrison	560'	
Ismay	5,306'	5,319'	Oil	Summerville	598'	
Ismay	5,366'	5,375'	Oil	Entrada	793'	
Ismay	5,387'	5,404'	Water - No test	Carmel	758'	
				Navajo	1,002'	
				Kayenta	1,075'	
				Wingate	1,382'	
				Chinle	2,522'	
				Cutler	4,343'	
				Hermosa	5,252'	
				Ismay Zone	5,452'	
				Desert Creek Zone		

JAN 3 1967

ATTACHMENT

Ismay 29-B3  
NE NE SW  
Sec. 29, T-40S, R-26E  
San Juan County, Utah

Well Completion or Recompletion Report and Log

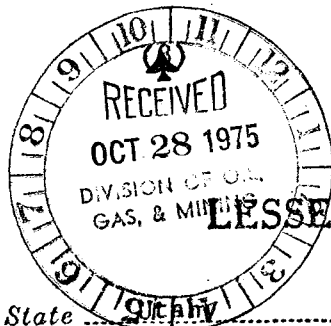
Union Oil Company of California

December 29, 1966

DST NO. 1 - 5,275' - 5,330' - Tool open 1 hr., shut in 1 hr., open 1 hr., shut in 1 hr. Tool opened with weak blow increasing to strong blow in 30 minutes. Remained strong throughout remaining one half hour and final hour. Gas to surface in 1 hour and 45 minutes. Recovered 360' of fluid - 180' highly gas cut drilling mud and 180' very highly oil and gas cut drilling mud with some free oil. Pressures: IH & FH 2937; IF 8 - 134; ISI 1734; FF 134 - 214; FSI 2001; BHT 135°.

DST NO. 2 - 5,330' - 5,375' - Tool open 30 minutes, shut in 1 hour. Opened with immediate strong blow, continued for 20 minutes. Gas to surface in 15 minutes. Oil to surface in 20 minutes. Continued to flow to end of 30 minute open period. Recovered 5,375' of gas cut oil. No water. Pressures: IH & FH 3023; IF 521; FF 939; FSI 2087.

DST NO. 3 - 5,370' - 5,386' - Tool open 30 minutes, shut in 30 minutes; open 15 minutes; shut in 15 minutes. Opened with strong blow. Remained strong throughout. Gas to surface in 20 minutes, oil in 35 minutes. Recovered 5,356' of highly gas cut oil and 30' of mud and oil cut water. Pressures: IH 2905; IF 265 - 1023; ISI 2034; FF 1023 - 1023; FSI 2034; FH 2904; BHT 135°



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.  
LAND OFFICE Navajo Tribe  
LEASE NUMBER Navajo  
UNIT 14-20-603-2055

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County San Juan Field South Ismay

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, 1975,

Agent's address P. O. Box 2620 Company Union Oil Company of California  
Casper, Wyoming 82601 Signed W. E. Dungan

Phone 307-234-1563 Agent's title Chief clerk

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL No.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<u>SEC. 29</u> NE NW	40S	26E	29-B3	30	374	41.1	468		*150	Pumping
<u>SEC. 30</u> NE SE	40S	26E	30-D3	0	-0-	-	-0-	-	None	Operations suspended temporarily 11-6-66.

GAS (MCF)  
Sold 360  
Went to 0  
Off Lease 0  
FUEL 108

OIL or CONDENSATE: (To be reported in Barrels)  
On hand at beginning of month 1,221.61  
Produced during month 374.44  
Sold during month 656.63  
Unavoidably lost NONE  
Reason: \_\_\_\_\_  
On hand at end of month 939.42

NOTE.—There were 656.63 runs or sales of oil; 360 M cu. ft. of gas sold;

No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES  
(8) DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form 9-329 Rev. Feb 76  
OMB 42-RO356

MONTHLY REPORT  
OF  
OPERATIONS

Lease No. 21-2  
Communitization Agreement No. \_\_\_\_\_  
Field Name South Ismay  
Unit Name \_\_\_\_\_  
Participating Area \_\_\_\_\_  
County San Juan State Utah  
Operator Union Oil Co. of California

☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of  
September, 19 77

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
29-B3	Sec. 29 NE NW	40S	26E	POW	30	320	164	150	
30-D3	Sec. 30 NE SE	40S	26E	OSI		None	None	None	Oper. Suspended Temp. 11-6-66.

\*If none, so state.

Disposition of production (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	612.49	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*Produced	320.30	164	150
*Sold	439.21	54	XXXXXXXXXXXXXXXXXXXX
*Spilled or Lost	None	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXXXX	None	XXXXXXXXXXXXXXXXXXXX
*Used on Lease	None	110	XXXXXXXXXXXXXXXXXXXX
*Injected	None	None	None
*Surface Pits	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	150
*Other (Identify)	None	None	None
*On hand, End of Month	493.58	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	42.1	None	XXXXXXXXXXXXXXXXXXXX

Authorized Signature: U.S. Dungan

Address: P.O. Box 2620 Casper, WY 82602

Title: District Chief Clerk

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐

2. NAME OF OPERATOR  
Union Oil Company of California

3. ADDRESS OF OPERATOR  
P. O. Box 2620 - Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 2227' FSL & 2072' FWL (NE NE SW)  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:      SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other) REPERFORATING & ACIDIZING	<input type="checkbox"/>	<input type="checkbox"/>

5. LEASE  
Navajo 14-20-603-2055

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Ismay

9. WELL NO.  
29-B3

10. FIELD OR WILDCAT NAME  
Undesignated-Lower Ismay

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 29, T.40S., R.26E.

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4705' KB; 4693' GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

5550' T.D.  
13-3/8" @ 159'  
8-5/8" @ 1509'  
5-1/2" @ 5549'

DIVISION OF  
OIL, GAS & MINING

Drilled in 1966.  
Perfs: 5306-5319'  
5366-5375'

MIRU service unit on 5-12-81. Unseated pump. Hot-oiled with 70 bbls. oil. POOH with rods and tubing. Perforated from 5306-5319' & 5322-5326', 2 spf, w/4" casing gun. Tagged ETD at 5474'. Tagged fluid before and after at 4300'. Picked up bridge plug and packer. TIH. Internally tested to 6000#. No failures. Set bridge plug at 5350' and packer at 5340'. Tested bridge plug to 4000#. Reset packer at 5274'. Treated perfs 5306-5326' with 2200 gallons 28% HCl and 3000 gallons spacer. (CONTINUED ON ATTACHED SHEET)

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED R. G. Ladd, Jr. TITLE District Drilling Superintendent DATE 6-2-81

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:



U.S. Geological Survey  
Form 9-331

Union Oil Company of California  
Navajo (Ismay) Well No. 29-B3  
San Juan County, Utah  
6-2-81  
Pg. 2

Initial injection rate, 6 bpm at 4000#. Rate decreased from 6 to 0 bpm as formation slowly plugged off. Circulated out unspent acid with 120 BW. SION. Casing pressure 75#. Bled down in 5 minutes. Tagged fluid at 4500'. Swabbed 2 BO & 4 BW with a considerable amount of gas in 6 hours. Swabbed dry. Retrieved bridge plug and POOH. SION.

Ran and landed tubing at 5393.54'. Ran rods. Returned well to production on 5-15-81. Well pumped up and engine died. Repaired engine. Returned to production on 5-29-81. Testing.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form Approved.  
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ gas ☐  
well well other

2. NAME OF OPERATOR  
Union Oil Company of California

3. ADDRESS OF OPERATOR  
P. O. Box 2620 - Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 2227' FSL & 2072' FWL (NE NE SW)  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>

(other) PRODUCTION AFTER WORKOVER

Navajo 14-20-603-2055

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Ismay

9. WELL NO.

29-B3

10. FIELD OR WILDCAT NAME

Undesignated-Lower Ismay

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 29, T.40S., R.26 E.

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

4705' KB; 4693' GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

(See Notice Dated 6-2-81)

Recovered all oil and water load.

Production Before Workover: (January, 1981) - Pumped 9 BOPD + 5 BWPD + 4 MCFD gas.

Production After Workover: Average Rate of Production During June, 1981 - Pumped 9 BOPD + 5 BWPD + 3 MCFD gas.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED R. G. Ladd, Jr. TITLE District Drilling Superintendent DATE 7-16-81

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

Union Oil Company of California  
Ismay Well No. 29-B3  
San Juan Co., Utah  
1-20-86  
Page 2

4. N.D. BOP and weld 5-1/2" lift sub. R.U. wireline and calculate free point from casing stretch. Cut off 5-1/2" casing (approximately 4000') and POOH.
5. TIH with 2-7/8" tubing open ended to casing stub, and spot 50 sacks of cement (Plug No. 2) 150' in stub and 150' out of stub (300').
6. P.U. to 1584' and spot 50 sacks of cement (Plug No. 3) from 1584-1434', 75' in and 75' out of 8-5/8" casing shoe (150').
7. P.U. to 60'. Spot 20 sacks of cement (Plug No. 4) from 60' to surface.
8. Cut off surface casing 4' below ground level and install dry hole marker.
9. Release equipment. Clean up and recontour road and location, and reseed location.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen a well back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ gas ☐  
well well other

2. NAME OF OPERATOR  
Union Oil Company of California

3. ADDRESS OF OPERATOR  
P. O. Box 2620-Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 2227' FSL & 2072' FWL (NE NE SW)  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other)		

5. LEASE  
Navajo 14-20-603-2055

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Ismay

9. WELL NO.  
29-B3

10. FIELD OR WILDCAT NAME  
Undesignated-Lower Ismay

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 29, T.40S., R.26E.

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4705' KB; 4693' GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

5550' T.D.  
13-3/8" @ 159'  
8-5/8" @ 1509'  
5-1/2" @ 5549'

Drilled in 1966.

PROPOSED PLAN OF PROCEDURE:

MIRU service unit. POOH with rods. Install BOP. POOH with tubing. Pick up bridge plug and packer. RIH with 2-7/8" tubing. Set bridge plug at 5350'. Set packer and test plug to 5000 psi. Re-set packer at 5275'. Acidize perfs 5306-5326' with 4000 gallons 28% HCl acid. Swab well back until clean. Release packer and retrieve bridge plug. POOH. Run production equipment.

Note: Received verbal approval of above procedure from John Keller, USGS, Farmington, New Mexico, on 7-21-81.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Glenn C. Fredrick TITLE Drilling Engineer DATE 7-21-81  
Glenn C. Fredrick

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

**APPROVED BY THE STATE**  
**OF UTAH DIVISION OF**  
**OIL, GAS, AND MINING**  
DATE: 8-3-81  
BY: M.T. Minder

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well <input checked="" type="checkbox"/> gas well <input type="checkbox"/> other <input type="checkbox"/>	5. LEASE Navajo 14-20-603-2055
2. NAME OF OPERATOR Union Oil Company of California	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P. O. Box 2620 - Casper, WY 82602	7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SURFACE: 2227' FSL & 2072' FWL (NE NE SW) AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	8. FARM OR LEASE NAME Ismay
	9. WELL NO. 29-B3
	10. FIELD OR WILDCAT NAME Undesignated-Lower Ismay
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29, T.40S., R.26E.
	12. COUNTY OR PARISH San Juan
	13. STATE Utah
	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD) 4705' KB; 4693' GL

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other) (AMENDED NID)	<input type="checkbox"/>	<input type="checkbox"/>

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

5550' T.D.  
Drilled in 1966

13-3/8" @ 159'  
8-5/8" @ 1509'  
5-1/2" @ 5549'

PROPOSED PLAN OF PROCEDURE:

MIRU service unit. POOH with rods. Install BOP. POOH with tubing. Pick up bridge plug and packer. RIH with 2-7/8" tubing. Set bridge plug at 5350'. Set packer and test plug to 5000 psi. Re-set packer at 5275'. Break down perfs 5306-5326' with 1500 gallons MSR acid, diverted with ball sealers. Swab back. Acidize perfs 5306-5326' with 4000 gallons 28% HCl acid. Swab well back until clean. Release packer and retrieve bridge plug. POOH. Run production equipment.

Note: Received verbal approval of above procedure from John Keller, USGS, Farmington, New Mexico, on 7-22-81.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED R. G. Ladd, Jr. TITLE District Drilling Superintendent DATE 7-22-81  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐

2. NAME OF OPERATOR  
Union Oil Company of California

3. ADDRESS OF OPERATOR  
P. O. Box 2620 - Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 2227' FSL & 2072' FWL (NE NE SW)  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐

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(other) Break Down Perfs & Acidize

5. LEASE  
Navajo 14-20-603-2055  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo  
7. UNIT AGREEMENT NAME  
8. FARM OR LEASE NAME  
Ismay  
9. WELL NO.  
29-B3  
10. FIELD OR WILDCAT NAME  
Undesignated-Lower Ismay  
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 29, T.40S., R.26E.  
12. COUNTY OR PARISH  
San Juan  
13. STATE  
Utah  
14. API NO.  
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4705' KB; 4693' GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

5550' T.D.

Drilled in 1966

Perfs: 5306-5319', 5322-5326', & 5366-5375'

13-3/8" @ 159'  
8-5/8" @ 1509'  
5-1/2" @ 5549'

MIRU service unit on 7-22-81. POOH with rods. Installed BOP. POOH with tubing. Set retrievable bridge plug at 5350' and packer at 5340'. Tested retrievable bridge plug to 5000#. Reset packer at 5275'. Acidized Ismay perfs 5306-5319' & 5322-5326' with 1500 gallons 28% HCl acid, diverting with 350# BAF & 350# fine grade salt, at 3.5, 2.5, and 3.3 bpm, at 3100-4300-3700#. Overflushed with 15 bbls. 2% KCl water at 3.3-3.2 bpm, at 3700-3500#. ISDP 3150#; 5 mins. 1800#; 10 mins. 800#. Swabbed 24 bbls. fluid + 4 BO + 20 BW with some acid gas.

(CONTINUED ON ATTACHED SHEET)

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED R. G. Ladd, Jr. TITLE District Drilling DATE 8-7-81

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐  
2. NAME OF OPERATOR  
Union Oil Company of California  
3. ADDRESS OF OPERATOR  
P. O. Box 2620 - Casper, WY 82602  
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 2227' FSL & 2072' FWL (NE NE SW)  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) PRODUCTION AFTER WORKOVER ☒

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RECEIVED

AUG 14 1981

5. LEASE  
Navajo 14-20-603-2055  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo  
7. UNIT AGREEMENT NAME  
8. FARM OR LEASE NAME  
Ismay  
9. WELL NO.  
29-B3  
10. FIELD OR WILDCAT NAME  
Undesignated-Lower Ismay  
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 29, T.40S., R.26E.  
12. COUNTY OR PARISH  
San Juan  
13. STATE  
Utah  
14. API NO.  
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4705' KB; 4693' GL

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to the work.)

OIL, GAS & MINING

(See Notice dated 8-7-81)

Recovered all load water on 8-8-81 and all load oil on 8-9-81.

Production Before Workover: Average Rate of Production During June, 1981 -  
Pumped 9 BOPD + 5 BWPD + 3 MCFD gas.

Production After Workover: 8-11-81: Pumped 26 BO + 5 BW + 15 MCF/24 hrs.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED R. G. Ladd, Jr. TITLE District Drilling Superintendent DATE 8-12-81

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED

JAN 27 1986

DIVISION OF OIL  
GAS & MINING

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Union Oil Company of California

3. ADDRESS OF OPERATOR

P. O. Box 2620 - Casper, WY 82602-2620

4. LOCATION OF WELL (Report location clearly and in accordance with any State Agreement.  
See also space 17 below.)  
At surface

2227' FSL & 2072' FWL (NE NE SW)

14. PERMIT NO.

API No. 43-037-20116

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4705' KB; 4693' GL

5. LEASE DESIGNATION AND SERIAL NO.  
Navajo 14-20-603-2055

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Ismay

9. WELL NO.

29-B3

10. FIELD AND POOL, OR WILDCAT

Undesignated-Lower Ismay

11. SEC., T., R., M., OR BLM. AND  
SURVEY OR AREA

Sec. 29, T.40S., R.26E.

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

5550' T.D.

8-5/8" @ 1509'

5-1/2", 17# @ 5417-5549'

5-1/2", 15.5# @ 5417'-sfc

Drilled in 1966

Perfs: 5306-5319')

5322-5326') - Lower Ismay

5366-5375')

Union Oil Company of California proposes to plug and abandon Ismay (Navajo) Well No. 29-B3. Production has declined on this well and sufficient production for good economics is not available.

Proposed Plan of Procedure

1. MIRU. N.U. BOP. POOH with pump and rods.
2. Release tubing anchor catcher and TOO H with 2-7/8" tubing.
3. P.U. 2-7/8" tubing and TIH open ended to 5434' ETD. Spot 30 sacks cement (Plug No. 1) from 5423-5173' (covering perfs 5306-5375'). POOH with 2-7/8" tubing.

(Continued on Attached Sheet)

18. I hereby certify that the foregoing is true and correct

SIGNED

R. G. Ladd, Jr.

TITLE District Drilling Supt.

DATE 1-20-86

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

Federal approval of this action  
is required before commencing  
operations.

\*See Instructions on Reverse Side

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 2/4/86

BY: John R. Bays

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



U.S. Geological Survey  
Form 9-331

Union Oil Company of California  
Navajo (Ismay) Well No. 29-B3  
San Juan County, Utah  
8-7-81  
Pg. 2

Ran swab and tagged fluid level at 4900'. Swabbed 1 BO + 2 BW with acid gas in 4 hours. Swabbed dry. Unseated packer. RIH and retrieved RBP. RIH and set RBP at 5412' & packer at 5402' for pressure test. Tested RBP at 5000#. Reset packer at 5275'.

Treated perfs 5306-5319', 5322-5326', and 5366-5375' with 4000 gallons 28% HCL acid and 5625# KCl at 4200-1800-2600-2500# at 7-10 bpm. ISIP 1500#. 5 mins. 650#. 10 mins. 500#. 15 mins. 300#. On vac. 30 mins. Swabbed 88 bbls. fluid with F.L. 2300-2100' in 4 hours, cut 10% oil.

Swabbed 88 bbls. fluid in 10 hours, cut 10% oil, F.L. 2400-3900'.

Swabbed 60 bbls. fluid in 4 hours, cut 10% oil, F.L. 3700-4000'. Released packer. Retrieved RBP and POOH with straddle assembly, 7-29-81. Ran production equipment on 7-30-81. Hung well on at 5:00 p.m., 7-30-81.

8-1-81: Pumped 0 BOPD & 100 BWPD.

8-2-81: Pumped 0 BOPD & 75 BWPD. Have recovered 26 of 70 BLO.

Recovering load.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP  
(Other instruction  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Navajo 14-20-603-2055	
2. NAME OF OPERATOR Union Oil Company of California		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo	
3. ADDRESS OF OPERATOR P. O. Box 2620 - Casper, WY 82602-2620		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2227' FSL & 2072' FWL (NE NE SW)		8. FARM OR LEASE NAME Ismay	
14. PERMIT NO. API No. 43-037-20116		9. WELL NO. 29-B3	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4705' KB; 4693' GL		10. FIELD AND POOL, OR WILDCAT Undesignated-Lower Ismay	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29, T.40S., R.26E.	
		12. COUNTY OR PARISH San Juan	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

5550' T.D.  
8-5/8" @ 1509'  
5-1/2", 17# @ 5417-5549'  
5-1/2", 15.5# @ 5417'-sfc

Drilled in 1966  
Perfs: 5306-5319')  
5322-5326') - Lower Ismay  
5366-5375')

Plugged and Abandoned Subject Well as Follows:

MIRU well service unit on 4-7-86. Unseated pump and POOH, laying down rods and pump. N.D. wellhead. N.U. BOP. Released anchor catcher and strapped out of hole, laying down production equipment.

TIH with 2-7/8" tubing open ended to 5423'. Set down on fill. Spotted 30 sacks of cement from 5422-5172' (Plug No. 1). Displaced with 9.2#/gal. mud-laden fluid. P.U. to 3800'. Spotted 30 sacks of cement from 3800-3550' ((Plug No. 2). POOH, laying down and standing back tubing. SION.

SICP 0 psi/14 hours. N.D. BOP. N.D. tubing spool. Welded on 5-1/2" pull nipple. Picked up on 5-1/2" casing and calculated free point at 1900'. Cut 5-1/2" casing with jet cutter at 1800'. P.O. and laid down 54 joints and

(Continued on Attached Sheet)

18. I hereby certify that the foregoing is true and correct

SIGNED R. G. Madd, Jr. TITLE District Drilling Supt. DATE 4-11-86

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

\*See Instructions on Reverse Side

DATE: 4-15-86

BY: John R. Bay

Union Oil Company of California  
Ismay Well No. 29-B3  
San Juan County, Utah  
4-11-86  
Page 2

2 pieces (1798') of 5-1/2" casing. TIH with 2-7/8" tubing open ended. Spotted 50 sacks of cement from 1950-1650' (Plug No. 3). Displaced with 9.2#/gal. brine. P.U. and spotted 50 sacks of cement from 1584-1334' (Plug No. 4). P.U. and spotted 20 sacks of cement from 60' to surface (Plug No. 5). Cut off 8-5/8" casing 4' below ground level. Welded cap on 8-5/8" casing and installed P&A marker.

Well plugged and abandoned on 4-9-86.

Note: A sundry notice will be submitted as soon as the location is ready for inspection.